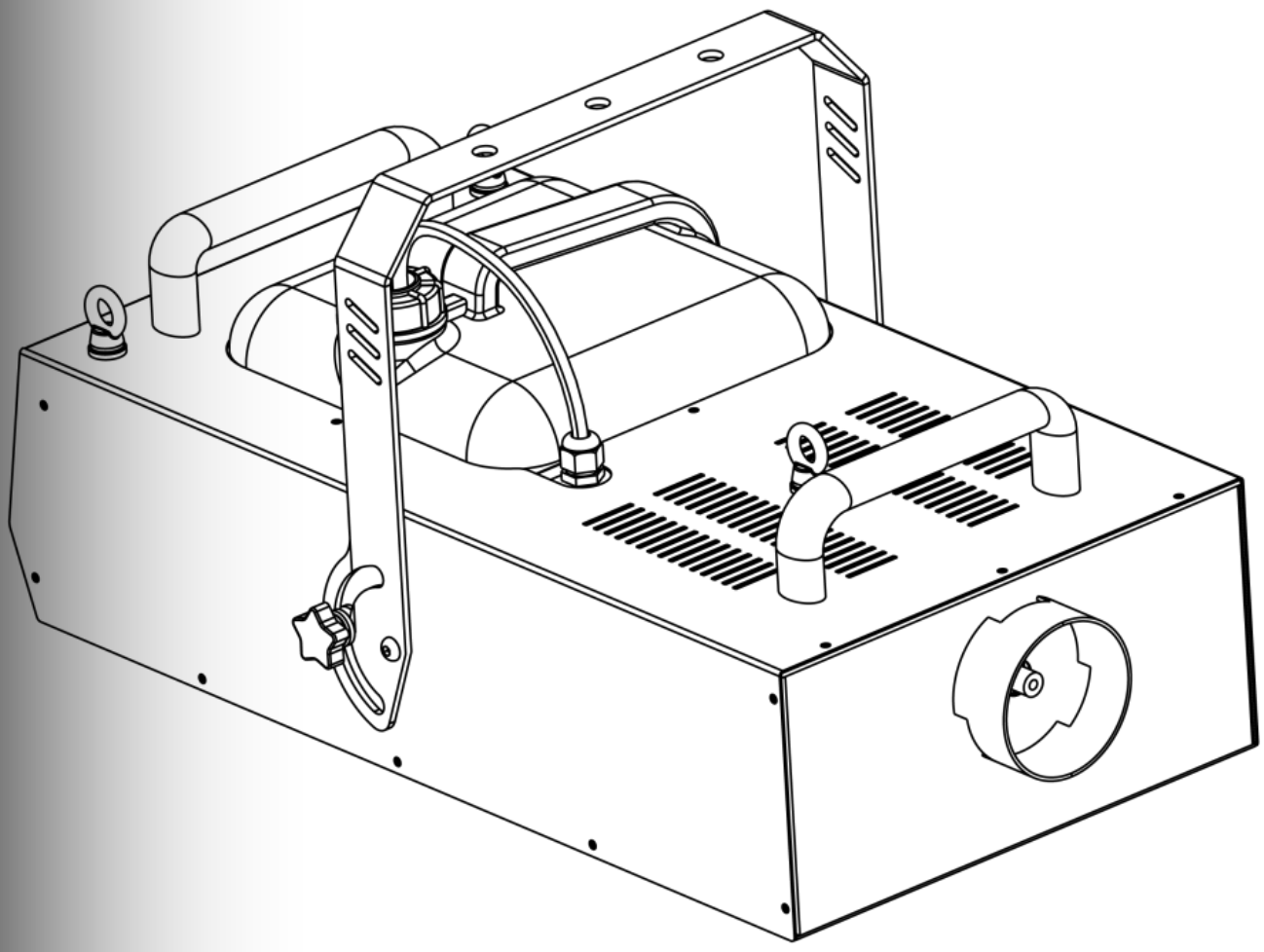
Atmos™

User Manual



CHAUVET® PROFESSIONAL

Edition Notes

The Atmos™ User Manual Rev. 3 covers the description, safety precautions, installation, programming, operation, and maintenance of the Atmos™. Chauvet released this edition of the Atmos™ User Manual in April 2015.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility for any errors or omissions in this document. Chauvet reserves the right to revise and make changes to the content of this document without obligation that Chauvet notify any person or company of such revision or changes. This does not in any way constitute a commitment by Chauvet to make such changes. Chauvet may issue a revision of this manual or a new edition to incorporate such changes.

Document Revision

The Atmos™ User Manual Rev. 3 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

Author	Date	Editor	Date
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1. BEFORE YOU BEGIN

What Is Included

- Atmos™
- Neutrik® powerCON® power cord
- Warranty Card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.
If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.
For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Manual Conventions

Convention	Meaning
1–512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1–10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.

The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Product At A Glance

Use on Dimmer	X	Auto Programs	X
Outdoor Use	X	Fixed Voltage (120 V)	P
Sound-Activated	X	Circuit Breaker	P
DMX	P	User-Serviceable	X
Master/Slave	X		

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained Chauvet certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.
- Do not drink or become in contact with the fog fluid. If you do, call your local emergency service (911 in the US) for help.

Mounting And Rigging

- This product is not intended for permanent installation.
- This product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose this product to rain or moisture.
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable (not included).

Power And Wiring

- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage to the housing, fluid tank, or cables. Have the damaged parts replaced by an authorized technician at once.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never carry the product from the power cord or any moving part. Always use the handles.
- The fog exits the nozzle at a very high temperature. Keep a minimum distance of 6.5 ft (2 m) from the nozzle to the nearest object.
- The product's nozzle is very hot during operation and it remains hot for a long time after operation has stopped.
- The maximum ambient temperature is 104 °F (40 °C). Do not operate this product at a higher temperature.
- In the event of a serious operating problem, stop using this product immediately!
- Do not add perfume, alcohol, gasoline, or any other flammables to the fog fluid.
- Only use Chauvet water-based High Density Fog Fluid (HDF) and Quick Dissipating Fog Fluid (QDF).

In the unlikely event that your Chauvet product may require service, contact Chauvet Technical Support.

2. INTRODUCTION

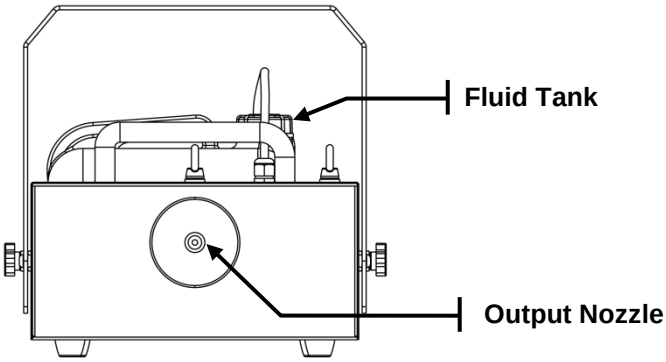
Description

The Atmos™ is a professional-level fogger with excellent output and tank capacity. The Atmos™ features a 1.6 kW heater, tough housing for product longevity, a removable control panel, an industry-standard Neutrik® powerCON™ power input connection, and 3- and 5-pin DMX input/output connections. It only works with High Density Fog Fluid (HDF) and Quick Dissipating Fog Fluid (QDF) available from Chauvet to create various effects.

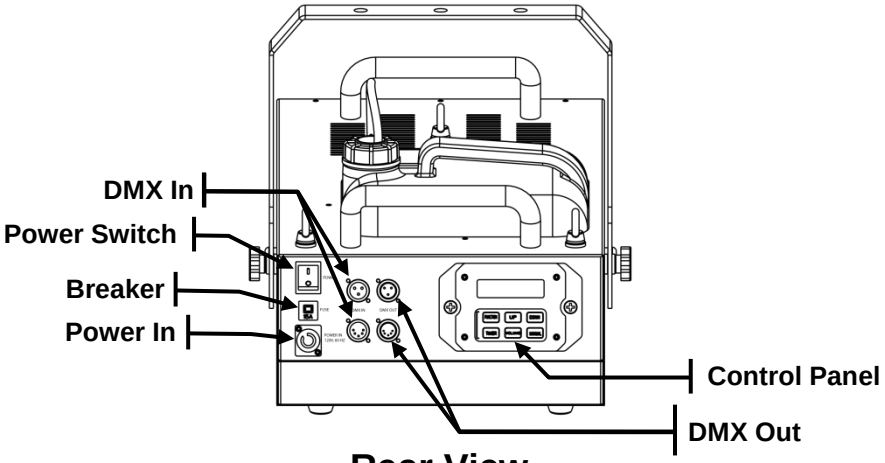
Features

- Continuous output at 10%
- 40,000 CFM fog output for intense, large effects
- 9.5 l fluid tank for reliability in production
- 1.6 kW fluid heater for voluminous, heavy bursts of fog
- Strong, sturdy construction for numerous production types
- DMX control for ease of use in production situations
- 3- and 5-pin DMX input/output connections

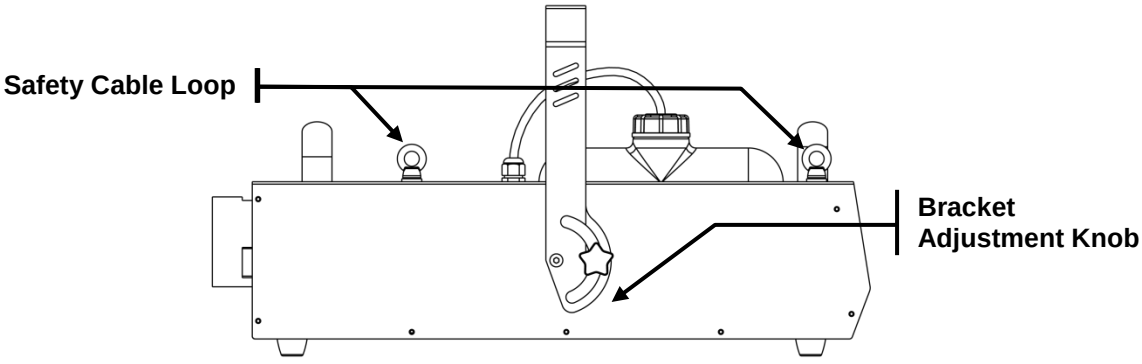
Overview



Front View

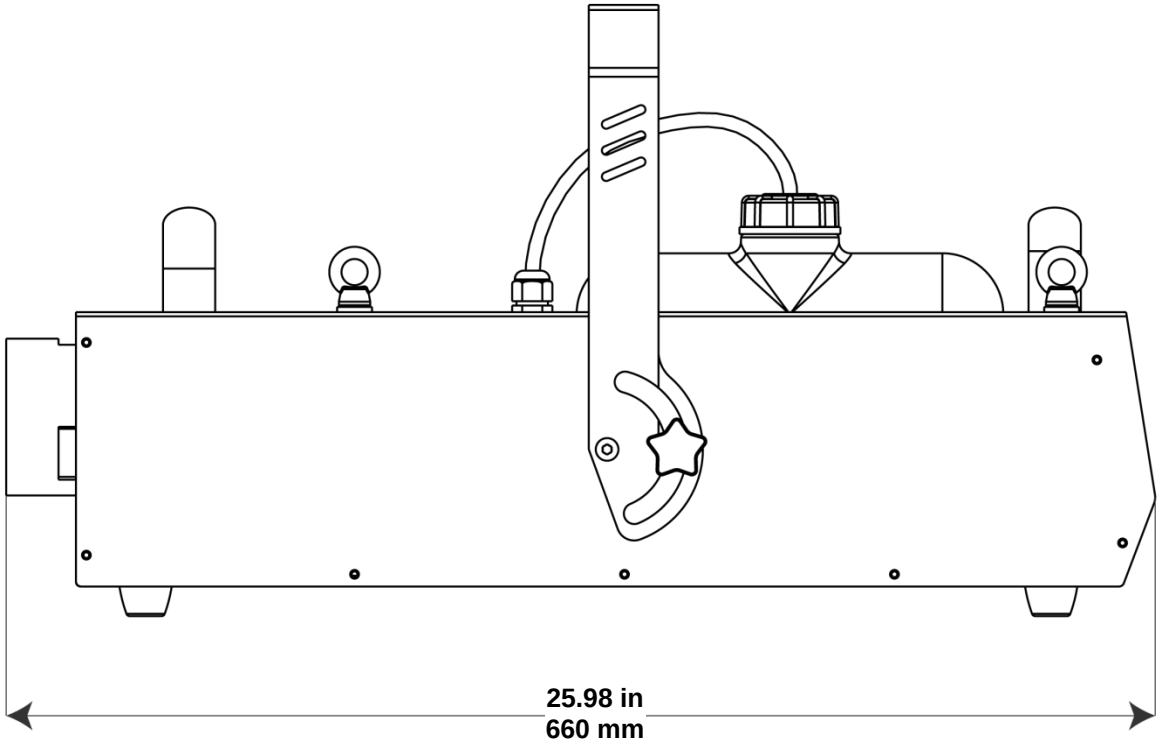


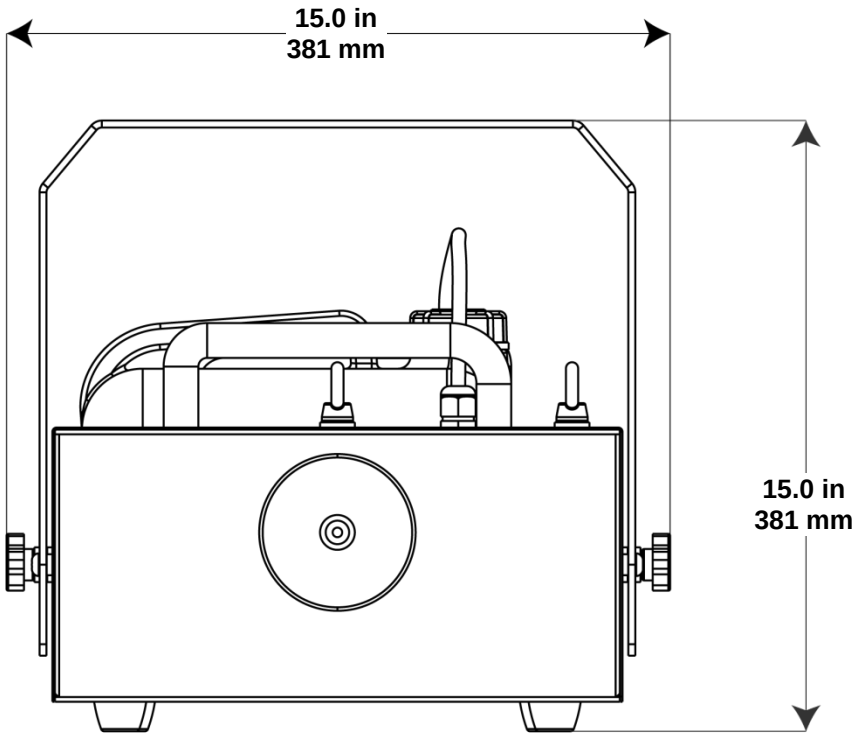
Rear View



Side View

Dimensions





3. SETUP

AC Power

Each Atmos™ has a fixed power supply that works with an input voltage of 120 VAC, 60 Hz. To determine the power requirements for each Atmos™, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual. The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the Chauvet website www.chauvetprofessional.com.

- **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The Atmos™ comes with a power input cord terminated with a Neutrik® powerCON® A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the Edison plug, use the table below to wire the new plug to the power input cord.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Resetting the Breaker

The Atmos™ uses a resettable circuit breaker. Follow the instructions below to reset.

Disconnect the product from the power before resetting the breaker.

This product is equipped with a resettable circuit breaker. If the breaker trips, all sections of this product will lose power.

1. Disconnect the product from power.
2. Allow the product to cool for 15 minutes.
3. After 15 minutes, try to reset the breaker by flipping it to the ON position.
4. Connect the product to power and continue using as recommended.

If the breaker does not reset (the breaker button will not remain latched), contact Chauvet immediately.

DMX Linking

You can link the Atmos™ to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX compatible products with the Atmos™, you can control each individually with a single DMX controller.

DMX Personalities

The Atmos™ uses a 3- or 5-pin DMX data connection for its 1-channel DMX personality.

- Refer to the Introduction chapter for a brief description of each DMX personality.
- Refer to the Operation chapter to learn how to configure the Atmos™ to work in these personalities.
- The DMX Values section provides you with detailed information regarding the DMX personalities.

If you are not familiar with or need more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Mounting

Before mounting this product, read and follow the Safety Notes. For our Chauvet line of mounting clamps, go to http://trusst.com/products/.

Orientation

Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

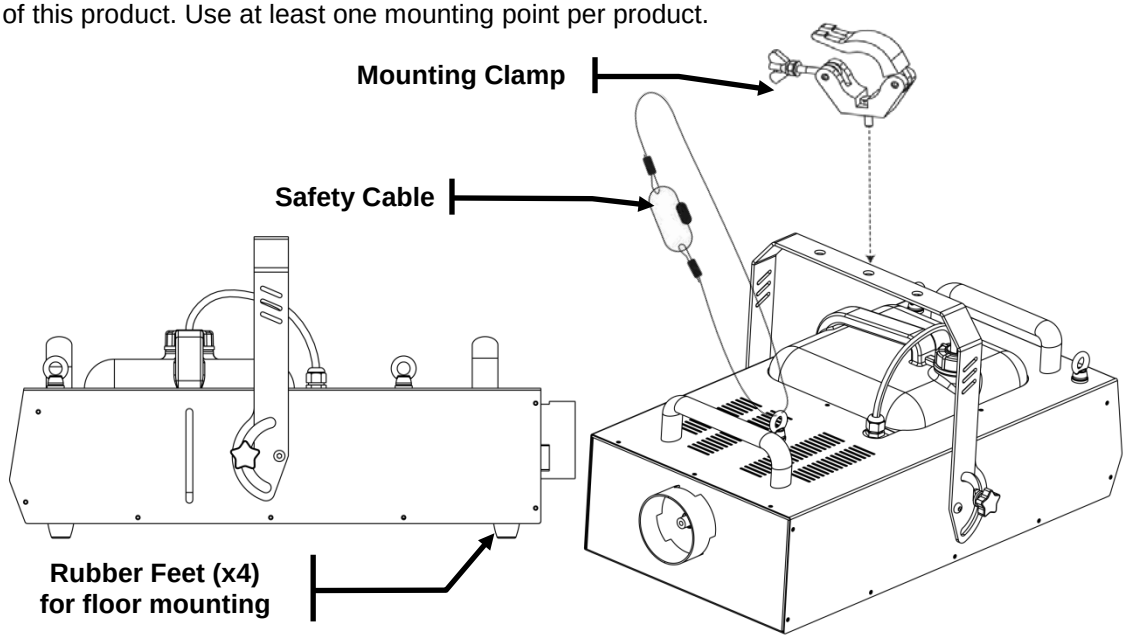
Chauvet recommends using the following general guidelines when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (such as **CH-05** from Chauvet).

Procedure

The Atmos™ comes with rubber feet for floor mounting and a yoke to which you can attach mounting clamps for hanging. You must supply your own mounting clamps. Make sure the structure and the clamps (such as **CLP-15** from Chauvet) are capable of supporting the weight of this product. Use at least one mounting point per product.

Mounting Diagram



Floor Mounting **Overhead Mounting**

When using only one mounting clamp, be sure to use a clamp with a captive bolt to prevent accidental loosening.

4. OPERATION

Control Panel Description

Button	Function
<FUNCTION>	Enters the programming mode
<VOLUME>	Controls the pump to modify the output volume
<TIMER>	Starts the timer controlled operation
<MANUAL>	Allows momentary fog output for as long as the button is held down
<UP>	Navigates upward through the menu list or increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list or decreases the numeric value when in a function

Control Options

You can set the Atmos™ starting address in the **001**–**512** DMX range. This enables control of up to 512 products in the 1-channel personality.

Removable Control Panel

To operate or control the Atmos™ from a distance, the control panel can be removed using the 2 thumb screws on each side of the panel; it has a 15 foot cable that is already installed and can be extended using a standard 5-pin DMX cable up to 200 feet.

Do not exceed 200 feet when extending the control panel cable.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

Only use Chauvet water-based High Density Fog Fluid (HDF) and Quick Dissipating Fog Fluid (QDF).

Preparing for Operation

To prepare the Atmos™ for operation, perform the following steps.

1. Withdraw the fluid tank from its compartment and remove its cap.
2. Verify that the two plastic hoses attached to the cap are in place and in good condition.
3. Pour Chauvet (HDF or QDF) fog fluid into the tank and replace the cap.
4. Return the tank back to its compartment in the Atmos™.
5. Make sure the plastic hose entering the Atmos™ from the fluid tank cap is not bent or kinked.
6. Connect the Atmos™ to power and **Warming Up** shows on the display during the heating-up process. After approx. 8 minutes, the display changes to **Ready To Atmos** when the machine is ready to output fog.

In any of the operation modes, the display must show Ready To Atmos to output fog.

Startup

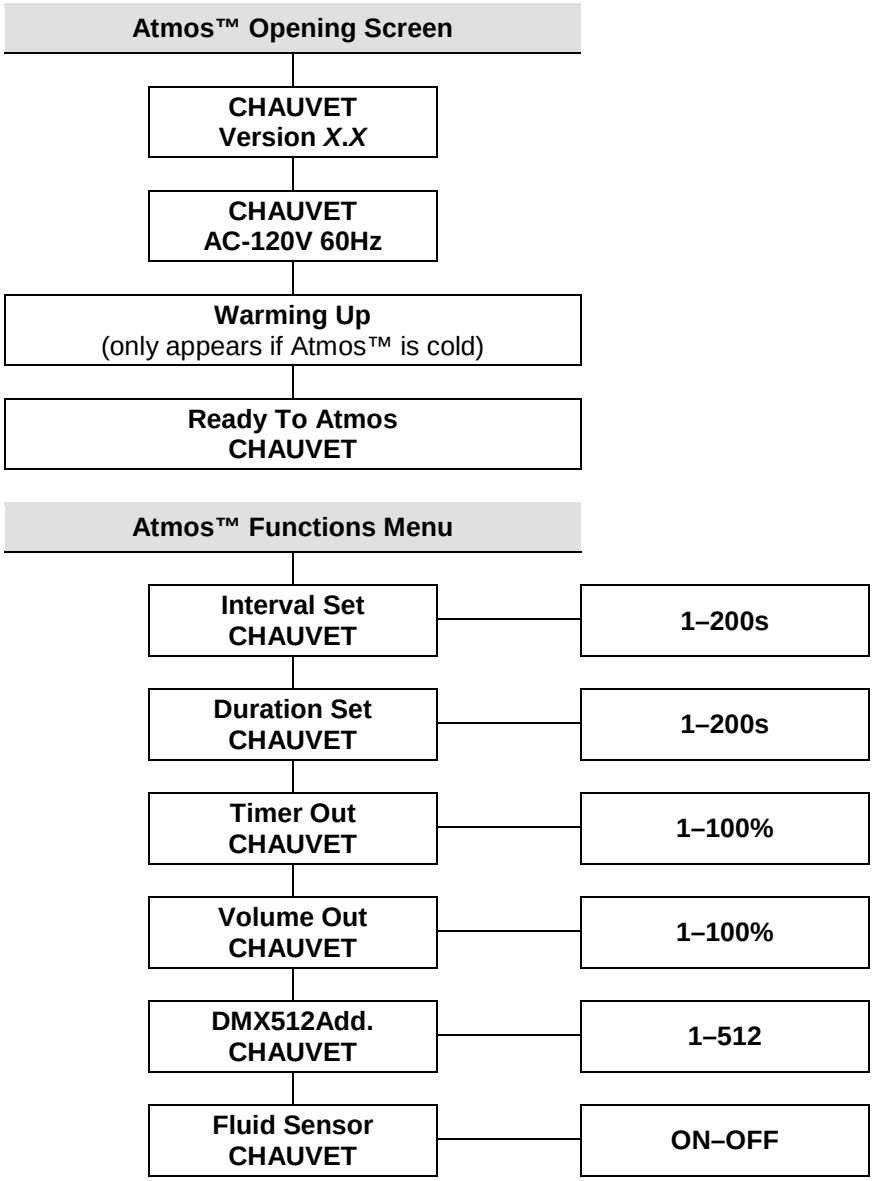
The Atmos™ has an On/Off switch. Make sure that the switch is in the OFF position before plugging the Atmos™ into power.

To start up the Atmos™, do the following:

1. Prepare for operation, as described in Preparing for Operation.
2. Press <**VOLUME**>.
3. Adjust fog output volume by using <**UP**> or <**DOWN**>.

Repeat the startup procedure after transporting the Atmos™ or after refilling with fluid.

Menu Map



2 Ch

Channel	Function	Value	Percent/Setting
1	**Volume**	000 ó 005 006 ó 255	No function 0–100%
2	**Continuous Output**	000 ó 005 006 ó 255	No function Continuous output

Configuration

To set the product in DMX mode to control with a DMX controller.

1. Connect the Atmos™ to power and turn power switch to ON. **Warming Up** shows on the display during the heating-up process. After approx. 8 minutes, the display changes to **Ready To Atmos** when the machine is ready to output fog.
2. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Starting Address

The Atmos™ uses up to 1 DMX channel in its DMX mode, which defines the highest configurable address to **512**. If unfamiliar with DMX, download the DMX Primer from www.chauvetprofessional.com.

To select the starting address, do the following:

1. Press <**FUNCTION**> repeatedly until **DMX512 Add.** shows on the display.
2. Use <**UP**> or <**DOWN**> to select the starting address **1–512**.

Make sure that the starting addresses on the various products do not overlap due to the personality setting.

Setting the Output Volume

To adjust the volume of the fog output, do the following:

1. Press <**FUNCTION**> repeatedly until **Volume Out** shows on the display.
2. Use <**UP**> or <**DOWN**> to select the desired percent output volume (**1–100%**).
3. Press <**VOLUME**> to initiate this output.
4. Press <**VOLUME**> again to trigger the fog output with this output volume setting.

After turning off the Atmos™, this output volume setting will remain in its memory. To change the output volume for subsequent operation of the Atmos™, simply repeat the steps above.

Activating the Fluid Sensor

The Atmos™ has a fluid sensor that can detect when the amount of fluid in the fluid tank has reached a low level.

To activate the fluid sensor, do the following.

1. Press <**FUNCTION**> repeatedly until Fluid Sensor shows on the display.
2. Use <**UP**> or <**DOWN**> to select **ON**.

Note: Selecting **OFF** turns off the fluid sensor.

While operating the Atmos™, make sure there is adequate fog fluid in the machine to prevent pump and heater damage. You can check the fluid level in the tank visually or by activating the fluid sensor. When the fluid level becomes low, simply add more fluid to continue using the Atmos™.

Timer Mode

When in Timer mode, the Atmos™ will produce fog in pre-configured time intervals defined by the Interval Set and Duration Set menu options. In addition, the output volume during Timer mode is set by the Timer Out menu option. See the Timer Mode Parameters section for details about how to configure these parameters.

To operate in Timer mode, do the following:

1. Press <**TIMER**> and the display will show a countdown of the interval timer.
2. When the counter reaches zero (**0**), the Atmos™ will start producing fog.
3. The fog output duration during Timer mode is set by the Duration Set menu option.
4. The fog output volume during Timer mode is set by the Timer Out menu option.
5. This cycle will repeat itself until you press <**TIMER**> again or until the Atmos™ runs out of fluid.

Manual Mode

In the Manual mode, the Atmos™ will output fog for as long as <**MANUAL**> remains pressed. The output volume will be at 100% full fog output.

To operate in Manual mode, do the following:

· Press <**MANUAL**>.

This mode will continue until you release <**MANUAL**> or until the Atmos™ runs out of fluid.

Timer Mode Parameters

These parameters determine the intervals and output volume for the Atmos™ while in Timer mode.

To configure these parameters do the following.

1. Press <**FUNCTION**> repeatedly until **Interval Set** shows on the display.
2. Use <**UP**> or <**DOWN**> to select the time in seconds (**1–200s**) between fog output.
3. Press <**FUNCTION**> repeatedly until **Duration Set** shows on the display.
4. Use <**UP**> or <**DOWN**> to select the time in seconds (**1–200s**) for the duration of the fog output.
5. Press <**FUNCTION**> repeatedly until **Timer Out** shows on the display.
6. Use <**UP**> or <**DOWN**> to set the fog output volume (**1–100%**).

5. TECHNICAL INFORMATION

Maintenance

Do not allow the Atmos™ to become clogged. After every 40 hours of continuous operation, use Chauvet Fog Cleaner Quart (FCQ) through the system to prevent the accumulation of particulate matter in the heating element.
The recommended cleaning procedure is as follows.

- Unplug the product from power.
- Empty all fluid from the machine.
- Add cleaning solution to the tank.
- Connect the product to power and allow it to warm up.
- Run the product in a well-ventilated area until the tank is empty.
- Refill with fog fluid to continue using the Atmos™. Run the machine briefly to clear any cleaning solution from the pump and heater.

FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Atmos™. Make sure you use FCQ regularly to increase the life of your fogger.

Do not spin the fans using compressed air because you could damage the fogger.

Storage

Before storing the Atmos™, run FCQ through the system as described in the cleaning procedure above; however, only follow steps 1 through 5. Do not refill the tank with fluid if storing the Atmos™. Cleaning the system prior to storage will help prevent any particles from condensing inside the pump or heater while not in use.

Test run your Atmos™ on a monthly basis to achieve the best performance.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	**Length**	**Width**	**Height**	**Weight**
	15 in (381 mm)	25.9 in (660 mm)	15 in (381 mm)	32.4 lb (14.7 kg)
	Note: Dimensions in inches rounded to the nearest decimal digit.			
Power	**Power Supply Type**	**Range**	**Voltage Selection**	
	Model-specific	120 VAC, 60 Hz	Fixed	
	Parameter	**120 VAC, 60 Hz**		
	Consumption	1,480 W		
	Current	12.39 A		
	Breaker	15 A		
	Power I/O	**U.S./Canada**	**Worldwide**	
	Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A	
	Power cord plug	Edison (U.S.)	Local plug	
Operation/Capacity/ Consumption	**Heat-up Time**	**Tank Capacity**	**Fluid Consumption**	
	8 min	2.5 gal (9.5 l)	140 ml/min	
Misc.	**Output**			
	40,000 cfm			
Thermal	**Max. External Temperature**	**Cooling System**		
	104 °F (40 °C)	Fan-Assisted Convection		
DMX	**I/O Connectors**	**Connector Type**	**Channel Range**	
	3- and 5-pin XLR	Sockets	1	
Ordering	**Product Name**	**Item Code**	**UPC Number**	
	Atmos™	05070859	781462212070	

Returns

You must send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.
Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.
Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing is recommended.

Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT US

WORLD HEADQUARTERS - Chauvet

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Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact the dealer of record. Follow their instructions to request support or to return a product. Visit our website for contact details.